

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	04/12/2017 04/12/2017	Bob Duffey

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_NA0020_01_s _ 2013_9				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_NA0020_01_s _ 2013_10				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 West Levee	Right	1.75	04/12/2017 04/12/2017	Bob Duffey

LM Start	0.43	Rating **	M	Issue No.	14
LM End	0.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.171422 °	39.171422 °
				-121.751978 °	-121.751978 °
DWR ID	DWR_ST0020_01_f_2016_14				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree limb from the waterside.					

Photo 1 of 1 : SP_2017_ST0020_213_14_20170315_00010.jpg



View of a fallen limb.

LM Start	0.51	Rating **	M	Issue No.	25
LM End	0.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.171392 °	39.171317 °
				-121.750478 °	-121.744545 °
DWR ID	DWR_ST0020_01_f_2016_25				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Olleanders are partially blocking visibility and access.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	04/12/2017 04/12/2017	Bob Duffey

LM Start	0.62	Rating **	U	Issue No.	4
LM End	0.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.171292 °	39.171232 °
				-121.748868 °	-121.748175 °
DWR ID	DWR_NA0020_01_s_2012_4				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the concrete ditch.					

Photo 1 of 2 : SP_2017_ST0020_213_4_20170315_00004.jpg



View the erosion along the concrete ditch.

LM Start	0.62	Rating **	U	Issue No.	4 (cont)
LM End	0.65	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2017_ST0020_213_4_20170315_00005.jpg



Another view the erosion along the concrete ditch.

LM Start	1.11	Rating **	M	Issue No.	18
LM End	1.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.171283 °	39.171243 °
				-121.739315 °	-121.736312 °
DWR ID	DWR_ST0020_01_f_2016_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0020_213_18_20170315_00014.jpg



View of the trees blocking visibility.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	04/12/2017 04/12/2017	Bob Duffey

LM Start	1.65	Rating **	U	Issue No.	6 (cont)	
LM End	1.65	Issue Type +	Ma	Location *	WS	
Category	Rivers, Channels & Designated Floodways			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			39.171132 °		39.171132 °
				-121.729312 °		-121.729312 °
DWR ID	DWR_NA0020_01_s_2012_6					
Comment Code						
Inspector Comment						
Sutter Yard needs to repair the erosion before winter.						

Photo 2 of 2 : SP_2017_ST0020_213_6_20170413_00023.jpg



Repair the erosion along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	04/12/2017 04/12/2017	Bob Duffey

LM Start	0.00	Rating **	M	Issue No.	11
LM End	0.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171116°	39.171101°
				-121.726501°	-121.721857°
DWR ID	DWR_NA0020_02_s_2012_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0020_214_11_20170315_00010.jpg



View of the annual grass along the landside slope.

LM Start	0.03	Rating **	M	Issue No.	24
LM End	0.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171152 °	39.171160 °
				-121.725937 °	-121.721673 °
DWR ID	DWR_ST0020_02_f_2016_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0020_214_24_20170315_00012.jpg



View of the annual grass along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	04/12/2017 04/12/2017	Bob Duffey

LM Start	0.29	Rating **	M	Issue No.	31
LM End	0.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.171008 °	39.171008 °
				-121.721025 °	-121.721025 °
DWR ID	DWR_ST0020_02_f_2016_31				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2017_ST0020_214_31_20170315_00014.jpg



View of the overgrown trees blocking visibility and access.

LM Start	0.53	Rating **	M	Issue No.	28
LM End	0.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.171028 °	39.171028 °
				-121.716475 °	-121.716475 °
DWR ID	DWR_ST0020_02_s_2016_28				
Comment Code					
DE : Debris					
Inspector Comment					
Tires and tree clippings on w/s crown.					

Photo 1 of 1 : SP_2017_ST0020_214_28_20170315_00013.jpg



View of the tires along the waterside berm.

LM Start	0.55	Rating **	M	Issue No.	2
LM End	1.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.171002 °	39.170770 °
				-121.716293 °	-121.699987 °
DWR ID	DWR_NA0020_02_s_2012_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove the vegetation from landside slopes.					

Photo 1 of 2 : SP_2017_ST0020_214_2_20170413_00045.jpg



View of the vegetation on landside slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	04/12/2017 04/12/2017	Bob Duffey

LM Start	0.55	Rating **	M	Issue No.	2 (cont)	
LM End	1.42	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			39.171002 °		39.170770 °
				-121.716293 °		-121.699987 °
DWR ID	DWR_NA0020_02_s _ 2012_2					
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						
Remove the vegetation from landside slopes.						

Photo 2 of 2 : SP_2017_ST0020_214_2_20170315_00001.jpg



View of the vegetation on both slopes.

LM Start	0.65	Rating **	M	Issue No.	29	
LM End	0.65	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			39.171033 °	39.171033 °	
				-121.714398 °	-121.714398 °	
DWR ID	DWR_ST0020_02_s _ 2016_29					
Comment Code						
DE : Debris						
Inspector Comment						
Mattress and tree clippings on landside.						

No Photos

LM Start	0.68	Rating **	M	Issue No.	22
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.170967 °	39.170458 °
				-121.713828 °	-121.698500 °
DWR ID	DWR_ST0020_02_s _ 2017_22				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove the vegetation from the waterside slope.					

Photo 1 of 1 : SP_2017_ST0020_214_22_20170413_00046.jpg



View of the vegetation on the waterside slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	04/12/2017 04/12/2017	Bob Duffey

LM Start	1.54	Rating **	M	Issue No.	4 (cont)	
LM End	2.01	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			39.170800 °		39.170732 °
				-121.698105 °		-121.689082 °
DWR ID	DWR_NA0020_02_s_2012_4					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Monitor the erosion along the waterside slope.						

Photo 2 of 2 : SP_2017_ST0020_214_4_20170315_00005.jpg



View of the erosion along the waterside slope.

LM Start	2.11	Rating **	C	Issue No.	6
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.170515 °	39.170518 °
				-121.687342 °	-121.682658 °
DWR ID	DWR_ST0020_02_f_2016_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation was removed from the landside slope.					

No Photos

LM Start	2.52	Rating **	M	Issue No.	23
LM End	3.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.170558 °	39.170615 °
				-121.679700 °	-121.670335 °
DWR ID	DWR_ST0020_02_s_2017_23				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.05	04/12/2017 04/12/2017	Bob Duffey

LM Start	2.71	Rating **	M	Issue No.	10
LM End	2.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.170548 °	39.170548 °
				-121.675970 °	-121.675970 °
DWR ID	DWR_NA0020_02_s_2012_10				
Comment Code					
MA : Material					
Inspector Comment					
Remove the lumber, garbage and equipment from the landside toe.					

Photo 1 of 1 : SP_2017_ST0020_214_10_20170315_00009.jpg



View of the material, garbage, and equipment along the landside toe

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
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+ Issue Type
Ma : Maintenance Deficiency
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